### Freeform Search

| Database:              | US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins |  |  |  |
|------------------------|--|--|--|--|
| Term:                  | L12 and 19   |  |  |  |
| Display: Generate:     | Documents in <u>Display Format</u> : Starting with Number 1  Hit List Hit Count Side by Side Image   |  |  |  |
| Search Clear Interrupt |  |  |  |  |
| Search History         |  |  |  |  |

DATE: Tuesday, March 02, 2004 Printable Copy Create Case

| Set Name     | Query  | Hit Count    | Set Name   |
|--------------|--|--------------|------------|
| side by side |  |              | result set |
| DB=PG        | PB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR =     | YES; OP = OR |            |
| <u>L13</u>   | L12 and 19   | 86           | <u>L13</u> |
| <u>L12</u>   | 341/\$.ccls.                                       | 35587        | <u>L12</u> |
| <u>L11</u>   | L10 and 19   | 6            | <u>L11</u> |
| <u>L10</u>   | 341/144.ccls.                                      | 2252         | <u>L10</u> |
| <u>L9</u>    | L8 and (add\$ or sum\$ or acumulat\$3 or combin\$) | 2540         | <u>L9</u>  |
| <u>L8</u>    | L7 and process\$3                                  | 2676         | <u>L8</u>  |
| <u>L7</u>    | (instruct\$3 with 14) and 13 and 12 and 11         | 2746         | <u>L7</u>  |
| <u>L6</u>    | (L5 with 14) and 13 and 12 and 11                  | 13           | <u>L6</u>  |
| <u>L5</u>    | operational adj instruction\$1                     | 1781         | <u>L5</u>  |
| <u>L4</u>    | memory or register\$3 or stor\$                    | 4197583      | <u>L4</u>  |
| <u>L3</u>    | dac\$1 or (digital adj3 analog)                    | 155728       | <u>L3</u>  |
| <u>L2</u>    | bit\$1 or cod\$3 or binary                         | 2884921      | <u>L2</u>  |
| <u>L1</u>    | invert\$3 or inversion                             | 849305       | <u>L1</u>  |

END OF SEARCH HISTORY

## Freeform Search

| Database:   | US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins |                        |  |  |  |
|---|--|------------------------|--|--|--|
| Term:   | L21 and 115  |                        |  |  |  |
| Display:  | 50 Documents in Display Format: -  | Starting with Number 1 |  |  |  |
| Generate: O Hit List O Hit Count O Side by Side O Image |  |                        |  |  |  |
|   | Search Clear Continue Interru  | pt                     |  |  |  |

#### **Search History**

DATE: Sunday, February 29, 2004 Printable Copy Create Case

| Set<br>Name<br>side by<br>side | Query  | <u>Hit</u><br><u>Count</u> | <u>Set</u><br><u>Name</u><br>result set |
|--------------------------------|--|----------------------------|---|
| DB=F                           | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YES; OP=OR  |                            | 1                                       |
| <u>L22</u>                     | L21 and l15  | 23                         | <u>L22</u>                              |
| <u>L21</u>                     | L20 and (differential adj amplif\$)  | 2420                       | <u>L21</u>                              |
| <u>L20</u>                     | L19 and (combin\$ or add\$ or accumulat\$3 or sum\$)   | 17089                      | <u>L20</u>                              |
| <u>L19</u>                     | 11 and (memory or stor\$) and (bit\$1 or digital or cod\$3) and (invert\$3 or inversion) and current       | 18869                      | <u>L19</u>                              |
| <u>L18</u>                     | L17 and l15  | 21                         | <u>L18</u>                              |
| <u>L17</u>                     | 11 same amplif\$ same differential\$ same 13   | 219                        | <u>L17</u>                              |
| <u>L16</u>                     | L15 and l14  | 21                         | <u>L16</u>                              |
| <u>L15</u>                     | 341/144.ccls.  | 2250                       | <u>L15</u>                              |
| <u>L14</u>                     | 11 and (13 same (switch\$3 or select\$3 or multiplex\$3)) and 14 and 15 and (differential\$ adj amplif\$3) | 575                        | <u>L14</u>                              |
| <u>L13</u>                     | L11 and (plurality adj 13)   | 9                          | <u>L13</u>                              |
| <u>L12</u>                     | L11 and (plurality adj 11)   | 19                         | <u>L12</u>                              |
| <u>L11</u>                     | L10 and (switch\$3 or multiplex\$3 or select\$3)   | 1223                       | <u>L11</u>                              |
| <u>L10</u>                     | L9 and gain\$1   | 1279                       | <u>L10</u>                              |
|                                |  |                            |   |

| <u>L9</u> | (11 and (differential adj amplif\$)) and 13 and 14 and 15     | 1279    | <u>L9</u> |
|-----------|---|---------|-----------|
| <u>L8</u> | (11 with (differential adj amplif\$)) same 13 same 14 same 15 | 1       | <u>L8</u> |
| <u>L7</u> | (11 with (differential adj amplif)) same 13 same 14 same 15   | 0       | <u>L7</u> |
| <u>L6</u> | (11 with 12) same 13 same 14 same 15                          | 33      | <u>L6</u> |
| <u>L5</u> | gain\$1   | 472161  | <u>L5</u> |
| <u>L4</u> | resistor\$1 or resistance or resistive                        | 2815257 | <u>L4</u> |
| <u>L3</u> | current adj sourc\$1  | 145534  | <u>L3</u> |
| <u>L2</u> | differential amplif\$   | 1444276 | <u>L2</u> |
| <u>L1</u> | dac\$1 or (digital adj3 analog)                               | 155493  | <u>L1</u> |

#### END OF SEARCH HISTORY

# Freeform Search

| Database:             | US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins |   |
|-----------------------|--|---|
| Term:                 | L15 and 17   |   |
| Display:<br>Generate: | Documents in <u>Display Format</u> : Starting with Number 1  O Hit List  Hit Count O Side by Side O Image  | 1 |
|                       | Search Clear Interrupt:  |   |
|                       | Search History   |   |

DATE: Thursday, February 26, 2004 Printable Copy Create Case

| Set Name side by side | Query   | Hit Count  | Set Name result set |
|-----------------------|---|------------|---------------------|
| DB=PGP                | PB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=1  | YES; OP=OR |                     |
| <u>L16</u>            | L15 and 17                                      | 11         | <u>L16</u>          |
| <u>L15</u>            | L14 and voltag\$ and reference                  | 394        | <u>L15</u>          |
| <u>L14</u>            | L13 and l1 and l2                               | 405        | <u>L14</u>          |
| <u>L13</u>            | 13 near6 gain                                   | 7157       | <u>L13</u>          |
| <u>L12</u>            | L11 and l1 and l3                               | 12         | <u>L12</u>          |
| <u>L11</u>            | plurality adj 12                                | 152        | <u>L11</u>          |
| <u>L10</u>            | L9 and 15                                       | 20         | <u>L10</u>          |
| <u>L9</u>             | 341/\$.ccls.                                    | 35565      | <u>L9</u>           |
| <u>L8</u>             | L7 and l6                                       | 7          | <u>L8</u>           |
| <u>L7</u>             | 341/144.ccls.                                   | 2250       | <u>L7</u>           |
| <u>L6</u>             | L5 and (resistor\$1 or resistive or resistance) | 53         | <u>L6</u>           |
| <u>L5</u>             | L4 same control\$                               | 66         | <u>L5</u>           |
| <u>L4</u>             | L3 same l2 same l1                              | 128        | <u>L4</u>           |
| <u>L3</u>             | differential adj amplifier\$1                   | 78987      | <u>L3</u>           |
| <u>L2</u>             | current adj sourc\$1                            | 145524     | <u>L2</u>           |
| <u>L1</u>             | dac\$1 or (digital adj3 analog)                 | 155487     | <u>L1</u>           |